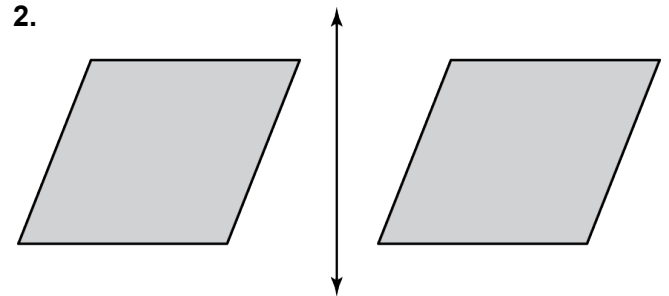
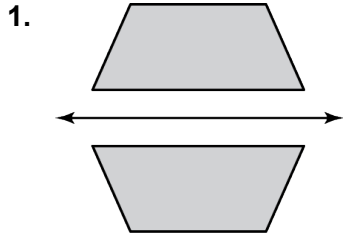


2.3 Practice A

Tell whether one figure is a reflection of the other figure.



Draw the figure and its reflection in the x -axis. Identify the coordinates of the image.

3. $E(0, 2), F(3, 1), G(4, 3)$

4. $H(-3, 2), I(-1, 5), J(2, 1)$

Draw the figure and its reflection in the y -axis. Identify the coordinates of the image.

5. $X(0, -1), Y(2, 3), Z(4, -2)$

6. $U(-5, 1), V(-4, -2), W(-2, 0)$

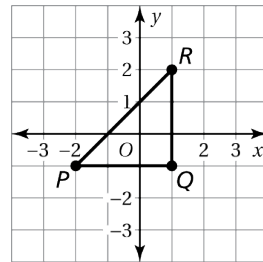
7. What does the word MOM spell when it is reflected in a horizontal line?

The coordinates of a point and its image are given. Is the reflection in the x -axis or y -axis?

8. $(-5, 2) \rightarrow (5, 2)$

9. $(4, 3) \rightarrow (4, -3)$

10. Translate the triangle 2 units left and 1 unit up. Then reflect the image in the x -axis. Graph the resulting triangle.

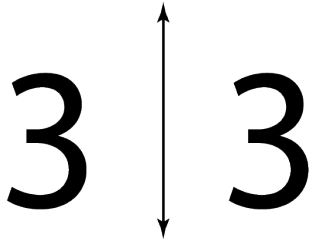


11. A figure is in Quadrant IV. The figure is reflected in the y -axis. In which quadrant is the image?

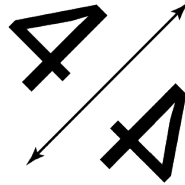
2.3 Practice B

Tell whether one figure is a reflection of the other figure.

1.



2.



Draw the figure and its reflection in the x -axis. Identify the coordinates of the image.

3. $K(-3, 3)$, $L(-2, 1)$, $M(1, 2)$, $N(2, 5)$ 4. $O(-2, -1)$, $P(-1, -3)$, $Q(1, -4)$, $R(3, -1)$

Draw the figure and its reflection in the y -axis. Identify the coordinates of the image.

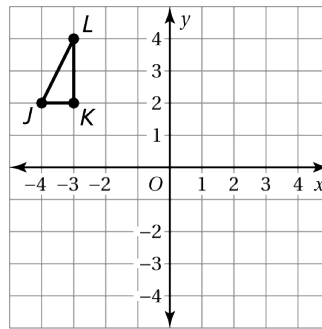
5. $B(2, -3)$, $C(3, 1)$, $D(5, 3)$, $E(3, 0)$ 6. $G(-5, -5)$, $H(-3, -1)$, $I(-2, 4)$, $J(-1, -1)$

7. What does the word “pop” spell when it is reflected in a horizontal line?

The coordinates of a point and its image are given. Is the reflection in the x -axis or y -axis?

8. $(0, 3) \rightarrow (0, -3)$ 9. $(1, 5) \rightarrow (-1, 5)$

10. Reflect the triangle in the x -axis. Then reflect the image in the y -axis. Graph the resulting triangle.



11. ! ABC has vertices $A(-2, -1)$, $B(4, 2)$, $C(2, -2)$.
- Reflect ! ABC in the x -axis. Then reflect ! $A'B'C'$ in the y -axis. What are the coordinates of the resulting triangle?
 - How are the x - and y -coordinates of the resulting triangle related to the x - and y -coordinates of ! ABC ?